



Gulf of Mexico Harmful Algal Bloom Bulletin

6 July 2006

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: July 3, 2006

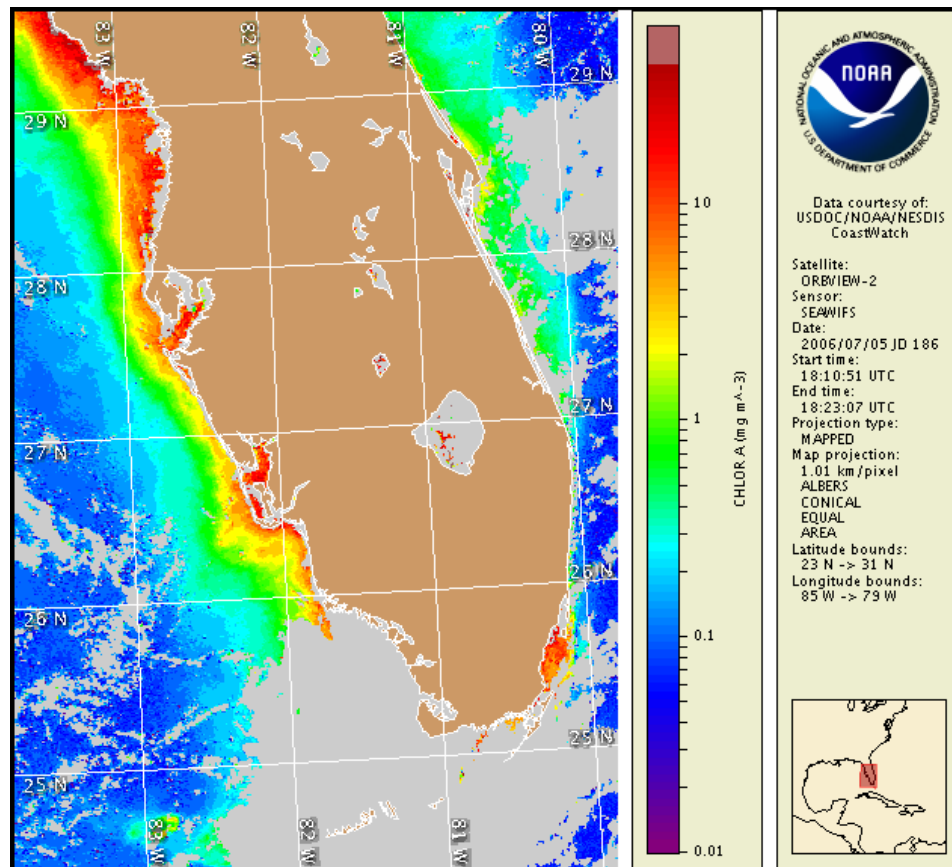
Conditions Report

A harmful algal bloom has been identified in southern Lee County. Patchy low impacts are possible in southern Lee County through Monday. Reports of discolored water are possible. No impacts are expected in any other Florida Counties today through Monday.

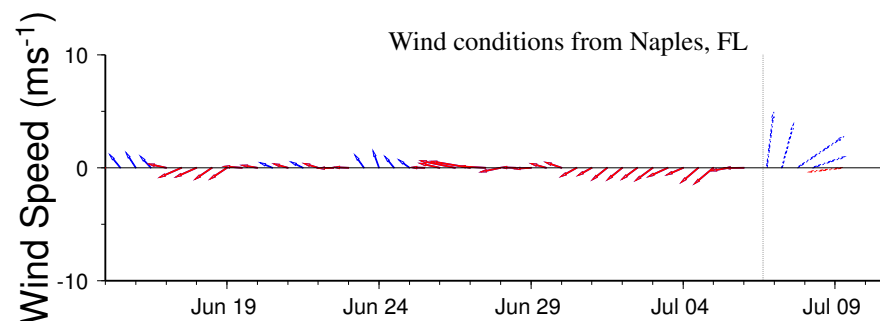
Analysis

A harmful algal bloom has been identified in Southern Lee County, in San Carlos Bay. Samples in San Carlos Bay from 6/29 had up to low *Karenia brevis* concentrations at the surface and up to medium *Karenia brevis* concentrations at the bottom (FWRI). These samples also contained non-harmful species. Imagery from 7/5 shows chlorophyll levels greater than $15 \mu\text{g/L}$ at and around $26^{\circ}26'N$, $82^{\circ}W$. This imagery also shows a feature offshore and south of Sanibel Island centered at $26^{\circ}17'N$, $82^{\circ}10'W$ with concentrations greater than $3 \mu\text{g/L}$. Recent northeasterly winds may have intensified and expanded this feature westward. No samples have confirmed the presence of *Karenia brevis* in this feature. Sampling is recommended. East winds forecasted for late Saturday through Monday could cause upwelling. This could intensify the bloom.

Bronder, Fenstermacher, Urizar



Satellite chlorophyll image with possible HAB areas shown by red polygon(s).

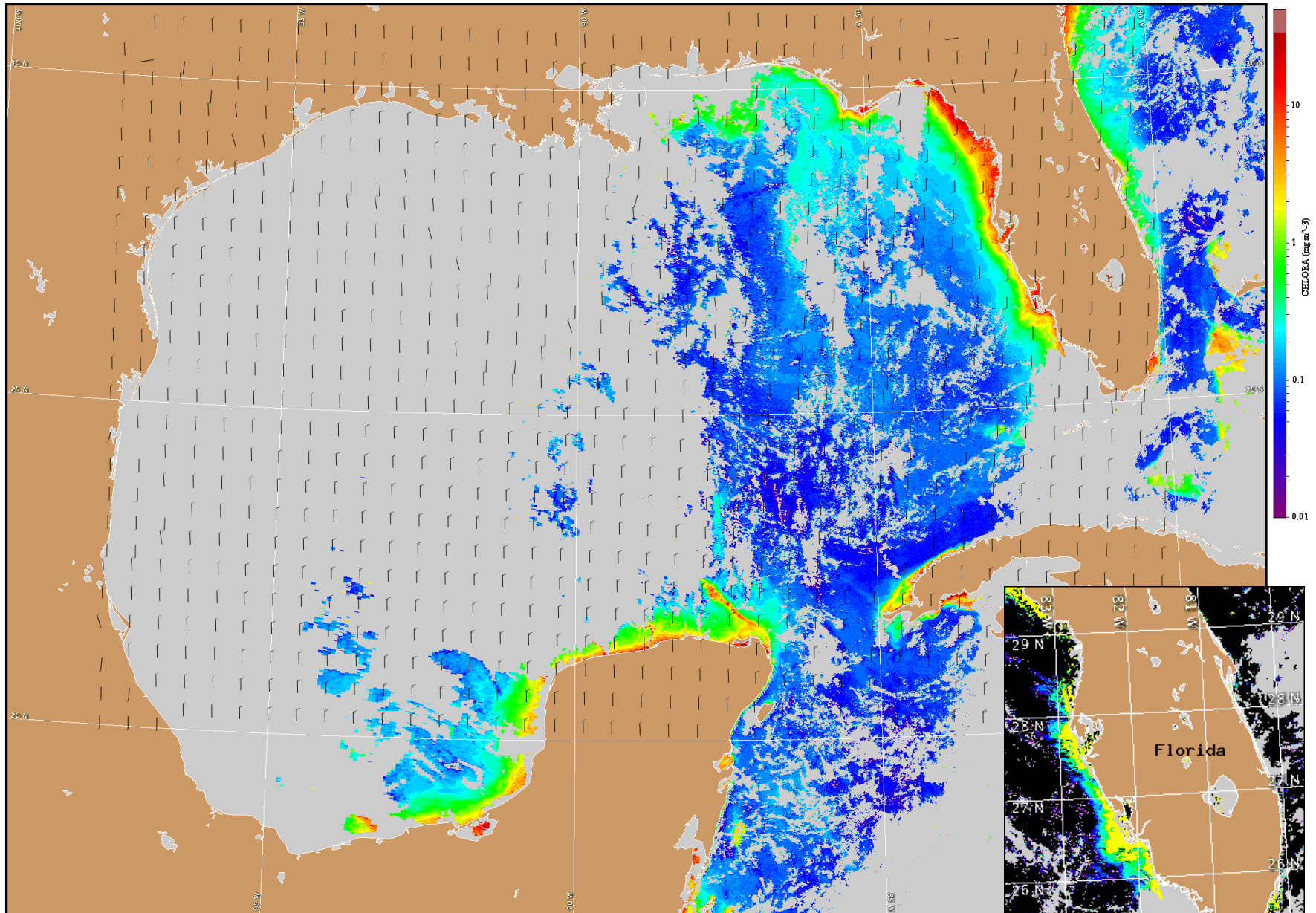


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Winds will be south (10 kts, 5 m/s) today, southwest (10 kts, 5 m/s) tomorrow, south becoming east (10 kts, 5 m/s) Saturday, east (10 kts, 5 m/s) Sunday and Monday.

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1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for July 7, 2006 12Z.

Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).